



IFW

Docket No.: 12810-00228-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Stefan Becker et al.

Application No.: 10/573,838

Confirmation No.: N/A

Filed: March 29, 2006

Art Unit: N/A

For: POLYMERS BASED ON N,N-  
DIALLYLAMINE DERIVATIVES, THEIR  
PRODUCTION AND USE

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 12810-00228-US1.

Dated: 5-3-04

Respectfully submitted,

By 

Joseph Barrera

Registration No.: 44,522

CONNOLLY BOVE LODGE & HUTZ LLP

1990 M Street, N.W., Suite 800

Washington, DC 20036

(202) 331-7111

(Fax)

Attorney for Applicant



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/573,838
				Filing Date	March 29, 2006
				First Named Inventor	Stefan Becker
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	12810-00228-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA*	US-4,591,625	05/1986	Mathias	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
	BA	WO-00/14053	03-16-2000	Rhodia Inc.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	P. Mumick et al., "Water-Soluble Copolymers. 56. Structure and Solvation Effects of Polyampholytes in Drag Reduction", 1994, American Chemical Society, Vol. 27, No. 2, pages 323-331.	
	CB	Hasan A. Al-Muallem et al., "Synthesis and solution properties of a new pH-responsive polymer containing amino acid residues", 2002, Elsevier Science Ltd, Polymer 43, pages 4285-4295.	
	CC	P. Favresse et al., "Synthesis and investigation of new amphiphilic poly(carbobetaine)s made from diallylammonium monomers", 2001, Elsevier Science Ltd., Polymer 42, pages 2755-2766.	
	CD	J.H. Hodgkin et al., "Cyclopolymerization of N-Substituted Diallylamines", 1980, J. American Chemical Society, No. 14, pages 211-233.	
	CE	H. Reich et al., "The Pyridylethylation of Active Hydrogen Compounds. III. The Reaction of 2-Vinylpyridine with Secondary Amines", 1955, JACS, Vol. 77, pages 4913-4915.	
	CF	J.H. Hodgkin et al., "Cyclopolymerization. VIII. The Synthesis of Allylamino Monomers by the Mannich Reaction and Their Polymerization", 1976, J. Macromol. Sci. Chem., Vol. 5, No. A10, pages 893-922.	
	CG	Hasan A. Al-Muallem et al., "Synthesis and solution properties of a new ionic polymer and its behavior in aqueous two-phase polymer systems", 2002, Elsevier Science Ltd., Polymer 43, pages 1041-1050.	
	CH	D.H. Solomon et al., "Cyclopolymerization of Diallylamines", J. Macromol. Sci.-Rev. Macromol. Chem. 1976 No C15 Vol 1 pages 143-164.	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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